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Perspectives in Disease Prevention and Health Promotion

State and Local Influenza Immunization Program Activities

Influenza prevention and control efforts in the United States have relied on cooperation between federal, state, and local public health agencies and private sector providers. Since the 1979–80 influenza season, public sector resources for influenza control have been provided primarily by state and local health agencies.

Between the 1985–86 and 1986–87 influenza seasons, the number of state and local projects offering influenza vaccine increased markedly. During the 1985–86 influenza season, 20 of 63 federal immunization grant-supported localities reported purchasing approximately 1,710,024 doses of influenza vaccine for use in public clinics. During the 1986–87 influenza season, 36 localities reported purchasing 2,179,485 doses of influenza vaccine. Compared with the previous year, the activities in 1986–87 represented increases of 80% in project participation and 27% in the number of doses purchased.

Programs in Allegheny County, Pennsylvania, and in California and Vermont illustrate state and local efforts to improve influenza vaccine coverage.

Allegheny County, Pennsylvania. During the 1986-87 influenza season, the Allegheny County Health Department conducted expanded outreach clinics to immunize high-risk persons against influenza. Of the 10,200 persons residing in nursing home facilities, 8529 (84%) received vaccine provided by the health department. Previous immunization coverage levels in Allegheny County nursing homes ranged from a low of 36% in the 1979-80 influenza season to a high of 71% during the 1985-86 season. An additional 43,926 doses were administered in health department clinics, hospital outpatient departments, community clinics, and senior citizen facilities. An estimated 21% of the 210,000 persons ≥65 years of age who were not in long-term-care facilities received publicly purchased vaccine. Allegheny County coordinated the development of a coalition involving the American Lung Association (ALA) of Western Pennsylvania and other health-care organizations that conducted surveys to measure the impact of and coverage levels for their programs. A telephone survey conducted by the ALA at the conclusion of the 1986-87 influenza season showed overall influenza vaccination rates of 32% in noninstitutionalized persons aged ≥65 years in the general population. The ALA publicized the recommendations and distributed educational material to high-risk groups (1).

California. The State of California, through the California Department of Health Services (CDHS), distributed over 481,000 doses of influenza vaccine, of which over 350,000 doses were administered to approximately 12% of California residents ≥65 years of age. This program, in operation since 1374, is funded entirely through state general revenue funds. The CDHS distributes vaccine to 59 county and municipal health departments. Fees up to \$2.00 may be charged by local units to defray administrative costs. Vaccine is offered at clinics to all persons ≥55 years of age and to persons of any age with certain chronic illnesses. Staff for outreach clinics and nursing home programs is provided jointly by California chapters of the American Red Cross and state and local health departments.

Vermont. The Vermont Department of Health receives a yearly grant from Blue Cross/Blue Shield of Vermont to support the purchase of influenza vaccine for an immunization program for persons ≥60 years of age and persons of all ages with high-risk conditions. Vaccine is distributed to home health agencies and visiting nurse associations that provide staffing and clinic coordination. Area Offices on Aging provide additional coordination and publicity through a newsletter distributed to senior citizens of Vermont. During the 1987–88 influenza season, approximately 11,000 persons received influenza vaccine through this program.

Reported by: Allegheny County Health Dept, Pittsburgh; R David, MD, Acting State Epidemiologist, Pennsylvania Dept of Health. DO Lyman, MD, State Epidemiologist, California Dept of Health Svcs. RL Vogt, MD, State Epidemiologist, Vermont Dept of Health. Div of Immunization, Center for Prevention Svcs, CDC.

Editorial Note: Older persons and those with certain chronic health problems are at increased risk for complications of influenza infection. Target groups for influenza immunization include children and adults with cardiopulmonary or renal disease, metabolic diseases (including diabetes mellitus), severe anemia, or compromised immune function; residents of chronic-care facilities; health-care professionals caring for high-risk patients; and household contacts of high-risk persons (2).

As many as 50,000 excess deaths are caused by influenza in the United States during epidemic years. Although influenza vaccine can substantially reduce influenza-associated morbidity and mortality, only about 20% of high-risk persons are immunized annually. To increase coverage, many state and local health departments have collaborated with private sector groups to develop special influenza vaccination programs such as those reported above. In addition, in October 1988, CDC, in collaboration with the Health Care Financing Administration, awarded demonstration grant funds to nine programs to assess the cost effectiveness of furnishing influenza vaccine to Medicare part B beneficiaries.

In the hospital setting, influenza vaccine should be offered to high-risk persons between September and February (2). Although other organized vaccination campaigns for high-risk persons are optimally undertaken in November, health-care providers should make every effort to ensure that high-risk persons are immunized during routine health-care contacts during the fall and early winter. Studies suggest that at least 40%–55% of persons who are at high risk or who died of influenza and pneumonia may have received care in a health-care institution during the previous year; at least 75% of these persons have attended outpatient clinics but failed to receive influenza vaccine when vaccines should have been routinely available (2–4). Recognizing these missed opportunities is important in improving coverage levels in high-risk groups.

Because of its substantial health impact, influenza is one of the most important vaccine-preventable diseases of adults. All providers of health care to adults should take every opportunity to review the immunization status of patients and, when indicated, offer their patients influenza vaccine and other vaccines (pneumococcal, tetanus/diphtheria toxoids, measles-mumps-rubella, and hepatitis B) appropriate for adults.

References

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- Barker WH, Mullooly JP. Pneumonia and influenza deaths during epidemics: implications for prevention. Arch Intern Med 1982:142:85–9.
- Williams WW, Hickson MA, Kane MA, et al. Immunization policies and vaccine coverage among adults: the risk of missed opportunities. Ann Intern Med 1988;108:616–25.

Notice to Readers

Availability of the CDC/NIH Manual, Biosafety in Microbiological and Biomedical Laboratories

The second edition of Biosafety in the Microbiological and Biomedical Laboratories is now available.

This document was developed jointly by CDC and the National Institutes of Health in 1984 to help define the principles of biosafety and to provide guidelines for implementing them in the research laboratory. It outlines standard and special microbiologic practices, safety equipment, and facilities that constitute four biosafety levels. Recommended safe microbiologic techniques are described in detail for special infectious agents through the use of agent summary statements. The 1988 edition is identical in content but has added the Agent Summary Statement for Human Immunodeficiency Virus and Report on Laboratory-Acquired Infection with Human Immunodeficiency Virus (1) to the information in the first edition.

Requests from academic institutions and private laboratories for single copies should be directed to NIH/DS, 31-1C02, Bethesda, MD, 20892. Copies for other institutions or multiple copies may be obtained for \$3.75 per copy (stock no. 107-040-000508-3) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402.

Reference

 CDC. 1988 agent summary statement for human immunodeficiency virus and report on laboratory-acquired infection with human immunodeficiency virus. MMWR 1988;37(suppl S-4).

Erratum: Vol. 37, No. 45

p. 691 In the article, "State-Specific Estimates of Smoking-Attributable Mortality and Years of Potential Life Lost — United States, 1985," the two numbers in parentheses in item 3 of the last paragraph are reversed. This item should read: "deaths among nonsmokers caused by passive smoking (3825) and deaths from cigarette-caused fires (1570) were included in the previous estimate. . . ." Also, RK Sikes, DVM, State Epidemiologist, Georgia Dept of Human Resources, should be added to the credits.

TABLE I. Summary - cases of specified notifiable diseases, United States

	46	th Week End	ing	Cumulative, 46th Week Ending				
Disease	Nov. 19, 1988	Nov. 21, 1987	Median 1983-1987	Nov. 19, 1988	Nov. 21, 1987	Median 1983-1987		
Acquired Immunodeficiency Syndrome (AIDS)	515	U*	117	27,144	17,979	6,963		
Aseptic meningitis	145	184	231	5.960	10.222	9,627		
Encephalitis: Primary (arthropod-borne								
& unspec)	17	24	24	689	1,169	1,169		
Post-infactious .	2	2		110	92	95		
Gonorrhan: Civilian	12,170	12,886	16,982	614,015	683,442	786,295		
Military	165	573	403	10,316	14,682	18,702		
Hepatitis: Type A	629	387	439	22,860	21,724	20,174		
Type B	466	511	483	19,803	22,479	22,841		
Non A, Non B	44	39	64	2,216	2,623	3,143		
Unspecified	69 37	44 25	77	2,027	2,754	4,526		
Legionellosis	37	25	18	859	861	689		
Leprosy	7		5 19 5 5	150	176	215		
Malaria	19	13	19	892	809	894		
Measles: Total ¹	42	17	5	2,639	3,523	2,664		
Indigenous	19 42 30	16	5	2,374	3,105	2,235		
Imported	3	1	1	265	418	303		
Meningococcal infections	52	65	45	2,496	2,587	2,377		
Mumps	111	185	49 37	4,081	11,521	2,928		
Pertussis	65	41		2,495	2,244	2,244		
Rubella (German measles)	2	2	8	187	321	594		
Syphilis (Primary & Secondary): Civilian	742	619	511	35,679	31,323	24,698		
Military	1	3	3	142	144	146		
Toxic Shock syndrome	5	8	. 7	307	300	333		
Tuberculosis	439	423	415	18,719	18,853	18,853		
Tularemia	.4	1	6	169	183	183		
Typhoid Fever	18	7	7	345	301	336		
Typhus fever, tick-borne (RMSF)	5	7	7	591	581	720		
Rabies, animal	104	68	83	3,837	4,194	4,847		

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1988		Cum. 1988
Anthrax Botulism: Foodborne (Colo. 1) Infant	26 31 3	Leptospirosis Plague Poliomyelitis, Paralytic	41 14
Other Brucellosis	3 58	Psittacosis (Mo. 1, Calif. 1) Rabies, human	78
Cholera Congenital rubells syndrome	58 6 4	Tetanus Trichinosis (Mich. 1)	48 40
Congenital syphilis, ages < 1 year Diphtheria	426		

Because AIDS cases are not received weekly from all reporting areas, comperison of weekly figures may be misleading

^{*}There were no cases of internationally imported measles reported for this wee

TABLE III. Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

		Aseptic Menin-	Ences	ohalitia	n.		14	epatitis (Viral), by	tyme		
Reporting Area	AIDS	gitis	Primary	Post-in- fectious		illian)	A	В	NA,NB	Unapeci-	Legionei- losis	Lapros
	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1968	Cum. 1988	Cum. 1987	Cum. 1988	Cum. 1968	Cum. 1988	Cum. 1988	Cum. 1988	Cum. 1988
UNITED STATES	27,144	5,960	689	110	614,015	683,442	22,860	19,803	2.216	2,027	859	150
NEW ENGLAND	1,163	375	24	4	19,221	21,186	754	1,037				
Maine	26	19	2		352	608	18	50	111	85	49	15
N.H. Vt.	36 10	40	1	3	230	355	42	66	10	4	- 7	
Mass.	850	27 155	7 8	i	107	201	14	39	6	4	5	
R.I.	78	81		1	6,459 1,796	7,431	363	647	71	61	33	14
Conn.	364	53	6		10,277	10,657	237	75 160	11	15	3	1
MID. ATLANTIC	9.124	643	52	4	95,817	107,456	1,731					
Upstate N.Y.	1,184	347	33	1	14,006	15,606	680	2,840	167 66	281	200	8
N.Y. City	5,009	123	8	3	39,700	57,028	320	1,193	16	19 205	75 45	7
N.J. Pa.	2,152 719	61 112	11	*	13,817	14,703	393	650	57	41	40	1
				-	28,294	20,119	338	316	28	16	40	
E.N. CENTRAL Ohio	1,940	986	180	13	104,279	104,686	1,499	2.095	194	112	200	5
and.	441 80	380 92	61	3	23,629	23,411	298	488	32	19	79	-
III.	898	92	27 32	10	8,002	8,287	148	304	19	24	28	
Mich.	417	374	43	10	31,334 33,267	30,486	481 364	447	68	29		4
Wis.	104	47	17		8,047	9,110	208	617 239	51 24	37	55	
W.N. CENTRAL	668	245	52	11	26,339					3	38	1
Minn.	146	29	11	3	3,535	27,758	1,250	897	96	31	72	1
lowa	39	35	9	3	1,946	4,138 2,715	90	119	19	3	4	*
Mo.	350	99	1	-	15,153	14,722	756	537	13	16	18 21	-
N. Dak. S. Dak.	4	5	4		163	261	6	12	3	5	1	*
Nebr.	33	18	5	2	444	549	26	4	3	-	14	-
Kans.	89	11 48	12	2	1,383	1,802	46	40	2	-	5	
				1	3,715	3,571	283	108	12	5	9	1
S. ATLANTIC Del.	4,704	1,279	102	40	173,430	179,455	2,130	4,134	347	300	133	1
Md.	497	42 187	3	3	2,701	3,061	44	128	7	4	13	
D.C.	433	19	1	1	18,040 13,132	20,469 11,892	266	623	38	25	18	1
Va.	328	181	32	4	12,677	13,121	339	42 301	72	1	1	*
W. Va.	16	35	22		1,217	1,273	14	65	5	198	11	
N.C. S.C.	249	157	21		24,535	26,442	291	745	84	-	31	
Ga.	166 669	142	1	1	13,799	14,087	40	476	12	5	26	
Fia.	2,284	495	13	29	32,741 54,588	32,055	560	601	13	6	21	
E.S. CENTRAL						57,055	580	1,153	113	57	12	
Ky.	667 85	406 141	60 20	8	49,085	51,711	698	1,269	169	13	47	2
Tenn.	293	48	15	1	4,943 17,029	5,206	461	256	59	2	20	
Als.	185	164	25	2	14,774	18,197 16,232	152 52	570	40	-	8	
Miss.	104	53	-	5	12,339	12,076	33	330 114	59	10	13	2
W.S. CENTRAL	2,324	724	82	3	66,278	77,510						
Ark.	75	14	5		6,603	8,730	2,827 307	1,822	192	495	25	31
Life.	318	116	23	1	13,188	13,054	147	317	25	17 16	7	
Okia. Fex.	127	68	8		6,278	8,349	454	160	42	27	14	1
- 4000	1,804	526	46	2	40,209	47,377	1,919	1,248	120	436	-	30
MOUNTAIN Mont.	791	213	26	3	13,113	17,870	3,030	1,463	227	162	44	1
daho	11	4	*		372	494	39	52	10	4	2	
Myo.	6	1 2	*	-	301	621	122	100	7	4		
Colo.	281	69	3	-	180 2,905	389 4,050	207	12	3		3	
V. Mex.	49	22	3	1	1,307	1,961	493	178 215	63 18	73	8	1
Ariz.	261	73	11	1	4,754	6,042	1,673	577	68	53	19	-
Jtah Vev.	58	26	4	1	480	552	281	126	37	18	3	
	115	17	5		2,814	3,761	210	203	21	9	5	
ACIFIC	5,763	1,090	111	24	66,453	95,810	8,941	4.246	713	548	89	86
Wash. Dreg.	342	*	7	4	6,184	8,025	2,042	772	177	60	21	7
Calif.	163 5,145	963	99	20	2,915	3,604	1,216	520	77	21	4	1
Maeka	16	25	3	20	55,883 936	81,918	5,146	2,855	446	446	61	66
ławaii	97	102	2		535	1,516 747	525 12	49 50	8	7		1
Suam	1								0	5	3	11
P.R.	1,230	69	4	1	1,145	1,743	9 51	13		2	1	5
/.l.	32				365	253	51	240	41	40	*	3
mer. Samoa					65	74	3	2	2	5		-
C.N.M.I.		1.0	-		39		1	3		4		2

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

Reporting Area	Malaria		Meas	ies (Rub	seola)		Menin- gococcal		mpe		Partussi	_	Rubella			
		Indig	anous	Impo	orted*	Total	Infections	-munips		rercussa			Mutiena			
	Cum. 1988	1986	Cum. 1988	1988	Cum. 1968	Cum. 1987	Curn. 1988	1988	Cum. 1988	1998	Cum. 1986	Cum. 1987	1988	Cum. 1988	Cum 198	
UNITED STATES	892	39	2,374	3	265	3,523	2,496	111	4,081	66	2,495	2,244	2	187	321	
NEW ENGLAND	67		83	2	54	280	215		117	1	175	150		9	1	
Maine	3		7			3	10			-	24	28			1	
N.H. Vt.	3 4		67		44	162	23 16		105		47	39	-	5	*	
Mass.	33		2		2	66	94		7	-	60	50		3	-	
R.I.	6	*	*			2	21				17	3		1		
Conn.	18		7	25	8	22	61	-	*	1	23	26	*		-	
MID. ATLANTIC	158	30	893		49	582	263	16	340	17	194	268		14	12	
Upstate N.Y. N.Y. City	38 86	~	19 48		18	40 463	124 64		96 101	9	112	154	*	2	10	
N.J.	11	30	299		11	39	63	9	53	7	15	13		7	1	
Pa.	23		529		14	40	12	7	90		61	84	-	2		
E.N. CENTRAL	47		141		67	374	346	7	806	1	234	252		31	38	
Ohio	11		2		32	5	126		113	-	49	74	-	1	30	
Ind.	4		57	-			26	1	73	1	74	17				
III. Mich.	23		56		16	194	74	2	296	*	44	16		26	27	
Wis.	7	-	26		5	29 146	80 40	4	210 115		34	46 99		4	9 2	
W.N. CENTRAL	18							-					-			
Minn.	6		11	1	3	230	91 19	37	192	1	124	134	-	2	2	
lowa	2		10	15	1	30	19	-	34	1	30	57	-		1	
Mg.	6		1		1	189	34	2	40	-	22	33				
N. Dak.	*				*	1	1	*			11	12	*	-		
S. Dak. Nebr.	1	*		-			12		11		5	3			-	
Kans.	3				-	1	21	35	106		7	15	-	2	1	
S. ATLANTIC	115	4	384		22	166	431	9	665	3	239	301	1	18	19	
Del.	1	-	-		*	32	2	1	1		7	5		18	2	
Md.	20		11		5	7	52		129	1	46	18		1	3	
D.C.	12		-	-		1	8	5	264	-	1				1	
Va. W. Va.	20	3	207		2	1	51 7	2	136	2	23	50	-	11	1	
N.C.	13				5	6	66		51	-	65	119	1	1	1	
S.C.	10					2	36		6		1		-			
Ga. Fla.	31	1	160		10	108	68		29		36	23	-	2	2	
		,			10		141	-	32	-	52	47		3	9	
E.S. CENTRAL	19	-	70	-		6	238	2	439	1	100	48	*	2	3	
Ky. Tenn.			36	-			130	2	210 211	-	12	15	*	-	1	
Ala.	10					4	40		15	1	55	24	-	2		
Miss.	9		34	*		2	15	N	N		4	7				
W.S. CENTRAL	78		14		3	448	167	19	789	3	203	274	-	11	11	
Ark.	4		-		1		20	11	116	2	26	12		4	2	
La. Okia.	12					4	47	2	286	1	18	49				
Tex.	52		6		2	444	19 81	6	197	-	62	162	-	6	5	
MOUNTAIN	42		117		30	496	74	11					-			
Mont.	5		5		28	128	2	11	203	30	740	193		6	25	
Idaho	2			-	1		8		4	3	323	62		-	1	
Wyo.		*				2		*	3		2	5			1	
Colo. N. Mex.	14		112	*	1	9	18	2	33	*	29	85	*	2	4	
Ariz.	13					317 36	11	N 8	N 137	27	51 306	12 33			8	
Utah	4					1	15		7	-	26	10	-	3	10	
Nev.	2					3	2	1	17		1		-	1	,	
PACIFIC	348	5	661		47	941	671	10	530	8	496	624	1	94	210	
Wash.	22		7			44	62	2	52	3	110	93		-	2	
Oreg. Calif.	16	:	6		2	100	41	N	N	-	46	70	:		2	
Cant. Alaska	297	5	644		37	792	645	8	438 13	5	266 7	220	1	66	134	
Hawaii	10		3		8	4	17		16		58	236		28	70	
Guarn					1	2			2					1	1	
P.R.	2		226		-	771	11		10		15	20		3	3	
V.I.					*				31	*					1	
Amer. Samos						1	2		3							

[°]For messles only, imported cases includes both out-of-state and international importations. N: Not notifiable U: Unavailable [†]International [†]Out-of-state

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

Reporting Area		(Civilian) Secondary)	Toxic- shock Syndrome	Tuber	culosis	Tula- rumia	Typhoid Fever	Typhus Fever (Tick-borns) (RMSF)	Rabies Anima
	Cum. 1988	Cum. 1987	Cum. 1988	Cum. 1988	Cum. 1987	Cum. 1988	Cum. 1988	Cum. 1968	Cum. 1988
UNITED STATES	35,679	31,323	307	18,719	18,853	169	345	591	3,837
NEW ENGLAND	1,055	570	24	490	567	4	35	12	15
Maine	12	1	4	22	22				1
N.H.	6	3	5	9	18	*		•	5
Vt. Mass.	391	269	10	287	312	3	21	7	
R.I.	30	11	10	39	58		6	2	
Conn.	613	282	3	129	143	1	7	3	9
MID. ATLANTIC	8.634	5.806	46	3,828	3,423		67	18	449
Upstate N.Y.	525	223	22	489	452		13	11	43
N.Y. City	6,012	4,334	6	2,128	1,686		41	6	
N.J. Pa.	893 1,204	619 630	3 15	604	598 687	-	11 2	i	14 392
E.N. CENTRAL Ohio	1,037 96	778 93	45 31	2,090	2,101 378	1	33	36 24	138
Ind.	49	54	1	215	211		2	2	29
DIL.	475	403	1	910	942		17	7	29
Mich.	388	174	12	472	483	1	4	2	34
Wis.	29	54		93	87	-	2	1	41
W.N. CENTRAL	213	163	43	466	560	76	4	91	417
Minn.	17	18	5	77	109	3	2	2	123
Mo.	23 138	26 76	7	51 228	37 296	46		56	13
N. Dak.	1	1	3	15	13	1	2	50	20 96
S. Dak.	-	11	4	32	24	16	-	7	112
Note.	28	11	4	14	25	3	*	1	18
Kans.	6	20		49	46	7		26	35
S. ATLANTIC	12,650	10,792	19	3,986	4,019	5	39	197	1,317
Del.	91	64	1	37	38	2	-	.1	58
Md. D.C.	613 621	556 353	3	379 173	347 142		2 2	22	289
Va.	386	295		366	390	2	12	17	331
W. Va.	36	12		66	93	-	1	2	91
N.C.	726	650	9	448	473		2	107	
S.C. Ge.	2,268	1,506	3	428 640	418	:	7	22	115
Fla.	7,241	6,694	3	1,449	711 1,407	1	13	23	270 146
E.S. CENTRAL	1,750	1,708	23	1,517					
Ky.	58	1,708	9	332	1,697	11	3	87 29	274 111
Tenn.	735	672	10	452	511	5		37	69
Ala.	516	450	3	485	495	-	1	10	87
Miss.	441	564	1	268	298	1	1	11	7
W.S. CENTRAL	3,897	3,933	28	2,376	2,226	63	8	135	491
Ark.	225	231	2	270	266	34	:	30	81
La. Okia.	774 136	730 155	•	306 218	272 214	16	4	2 88	10 31
Tex.	2,762	2,817	17	1,582	1,474	3	4	15	366
MOUNTAIN	742	610	35	510	551	11	9	11	345
Mont.	3	9		31	13	**	1		191
Idaho	3	5	5	19	28			1	11
Wyo.	1	3		5	2	2		3	38
Colo. N. Max.	97 46	111 50	3 2	57 88	140	5 2	3	1	28
Ariz.	146	268	16	225	230	1	4		11 41
Utah	16	22	9	29	24	i			9
Nev.	431	142		56	20				16
PACIFIC	5.701	6.963	44	3,456	3,719	8	147	4	391
Wash.	196	143	7	204	216	1	13	1	
Oreg.	273	269	_1	132	113	1	7	1	
Calif. Alaska	5,191 14	6,533	35	2,939	3,159	4 2	124	2	374
Hawaii	27	14	i	140	175	2	3	-	17
							-		
Guam P.R.	805	820		21 216	26 270		6		64
V.I.	1	9		6	2				04
Amer. Samos				3	8		1		
C.N.M.I.	1		-	17		-			

TABLE IV. Deaths in 121 U.S. cities,* week ending November 19, 1988 (46th Week)

Bernette Aver	_	All Cas	2904, B	y Age (Years)		P84**			All Cau	ses, B	y Age ((Years)		PBI*	
Reporting Area	All Ages			Reporting Area	Ali Ages	>65	45-64 25-4		1-24	<1	Total					
NEW ENGLAND	745	525	139	42	14	25	70	S. ATLANTIC	1,179	695	269	117	55	42	5	
loston, Mass.	191	118	40	15	5	13	28	Atlanta, Ga.	121	65	31	17	6	2		
Iridgeport, Conn.	35	26	6	2	-	1	6	Baltimore, Md.	135	88	27	9	5	6		
ambridge, Mass.	40	29	8	3	-		3	Charlotte, N.C.	85	54	16	5	4	6		
all River, Mass.	28	24	3	1		-	1	Jacksonville, Fla.	123	86	33	14	7	3		
lartford, Conn.	46	28	9	4	5		2	Miami, Fla.	95	50	23	13	5	4		
owell, Mass.	27	18	8	1			2	Norfolk, Va.	82	51	17	5	3	6		
ynn, Mass.	24	19	5	*			*	Richmond, Va.	95	59	20	7	3	6		
lew Bedford, Mass.	30	24	5	1			2	Savannah, Ga.	54	37	10	6	1			
iew Haven, Conn.	-54	41		3		2	4	St. Petersburg, Fla.	122	87	19	9	3	4		
rovidence, R.I.	55	44	7	2		2	3	Tampa, Fla.	56	37	13	4	1	1		
iomerville, Mass.	16	12	2	1	1		2	Washington, D.C.	168	68	52	26	17	4		
Springfield, Mass.	69	49	15	2	*	3	6	Wilmington, Del.	43	33	8	2				
Waterbury, Conn.	41	24	10	4	3		1		-		_					
Vorcester, Mass.	89	69	13	3		4	10	E.S. CENTRAL	816	527	176	62	25	26		
MD. ATLANTIC	2.720	1,796	535	257	68	62	124	Birmingham, Ala.	112	57	31	10	5	9		
	58	45	7	3	00			Chattanooga, Tenn.	73	48	15	5	3	2		
libany, N.Y. Illentown, Pa.	27	20	5	1	1	3	1	Knoxville, Tenn.	68	42	18	- 4	4			
luffalo, N.Y.	100	71	20	4	2	3	7	Louisville, Ky.	143	107	22	8	3	3		
amden, N.J.	34	22	9	2	4	1	,	Memphis, Tenn.	200	137	35	16	7	5		
lizabeth, N.J.5	24	19	4	1			1	Mobile, Ala.	48	29	12	6	-	1		
rie, Pa.†	48	35	10	1	2	*	5	Montgomery, Ala.	51	35	9	2	1	4		
lersey City, N.J.	63	37	14	7	2	3	2	Nashville, Tenn.	121	72	34	11	2	2		
N.Y. City, N.Y.	1.445	947	286	158	37	17	63	W.S. CENTRAL	1,690	1,075	353	151	62	49		
Newark, N.J.	105	42	26	26	4	7	6	Austin, Tex.§	57	36	13	7	1	-		
Paterson, N.J.	36	19	10	3	1	3	3	Baton Rouge, La.	39	29	6	2	2			
hiladelphia, Pa.	297	172	74	22	13	14	7	Corpus Christi, Tex.5		37	10	1	-			
								Dallas, Tex.	189	123	36	15	9	6		
Fittsburgh, Pa.1	94	71	14	6	1	2	5	El Paso, Tex.	57	32	14	7	2	2		
leading, Pa.	36	24	8	3	1	-	3	Fort Worth, Tex	97	64	17	7	7	2		
Rochester, N.Y.	137	103	26	5		3	8	Houston, Tex.5	734	436	169	89	24	16		
Schenectady, N.Y.	27	24	3		-	*		Little Rock, Ark.	79	55	14	6	1	3		
Scranton, Pa.1	33	28	3	1	1	:	2	New Orleans, La.	114	64	21	10	8	11		
Syracuse, N.Y.	53	37	7	6	1	2	5	San Antonio, Tex.	151	105	30	4	6	6		
Trenton, N.J.	53	40	6	3	-	4	1	Shreveport, La.	39	33	4	-	1	1		
Utica, N.Y.	18	12	1	3	2		1	Tuisa, Okia.	86	61	19	3	1	2		
Yonkers, N.Y.	32	28	2	2		*	3			-						
E.N. CENTRAL	2.496	1,646	507	169	73	99	112	MOUNTAIN	767	502	134	73	28	29		
Akron, Ohio	89	63	14	5	2	- 5		Albuquerque, N. Mes		43	14	13	6	4		
Canton, Ohio	28	20	6	2			4	Colo. Springs, Colo.	62	43	8	8	1	2		
Chicago, III.§	564	362	125	45	10	22	16	Denver, Colo.	131	90	18	12	1	1		
Cincinnati, Ohio	110	75	21	5	6	3	17	Las Vegas, Nev.	123	79	23	14	5	2		
Cleveland, Ohio	180	104	47	13	4	12	1	Ogden, Utah	22	16	4		1	1		
Columbus, Ohio	154	93	27	17		9	4	Phoenix, Ariz.	191	108		17	10	14		
Dayton, Ohio	144	97	30	10	3	4	7	Pueblo, Colo.	19	16		*	*			
Detroit, Mich.	320	176	75	28	24	15	6	Salt Lake City, Utah	40	24	7	6	1	2		
Evansville, Ind.	49	31	14	3	-	1	2	Tucson, Ariz.	99	74	16	3	3	3		
Fort Wayne, Ind.	70	54	7	4	3	2	3	PACIFIC	1,905	1,264	332	187	58	60		
Sary, Ind.	20	12	5	1	2	-	2	Berkeley, Calif.	29	20		10/	1	3	,	
Grand Rapids, Mich.	66	53	7	3	1	2	3	Fresno, Calif.	75	41		10		3		
Indianapolis, Ind.	172	101	53		1	9	5	Glendale, Calif.§	19			10	6	0		
Madison, Wis.	37	29	3	3	-	2	5	Honglulu, Hawaii	85	16 53		5		8		
Milwaukee, Wis.	148	112	25	7	1	3	13						2			
Peoria, III.	62	49	7	2	3	2	5	Long Beach, Calif.	80	56		6	-	3		
Rockford, III.	47	35	3	5	1	3	6	Los Angeles Calif.§	459	302		50	22	5		
South Bend, Ind.	42	36	7	3		9		Oakland, Calif.§	71	46		8	2	2		
Toledo, Ohio	121	86		8	3	3	11	Pasadena, Calif.	31	22		1	1	1		
Youngstown, Ohio	73	60			1	2	1	Portland, Oreg.	99	74		7	3	4		
								Secramento, Calif.	182	123		15	5	7		
W.N. CENTRAL	831	571		50	21	23	42	San Diego, Calif.	121	78		12	4	4		
Des Moines, Iowa	73	54	10	6	1	2	3	San Francisco, Calif.	190	117		35	-	5		
Duluth, Minn.	24	16	7		1	*	2	San Jose, Calif.	172	106		16	9	6		
Kansas City, Kans.	44	33		2		1	3	Seattle, Wash.	194	132		13	2	7		
Kansas City, Mo.	125	70		14	4	7	12	Spokane, Wash.	46	40		2				
Lincoln, Nebr.	35	26		2	1	1	1	Tacoma, Wash.	52	36	6	7	1	2		
Minnespolis, Minn.	175	111		9	6	6	9	TOTAL	13,149	0.001	2611	1 100	404	415		
Omaha, Nebr.	85	56		4	1		7	TOTAL	10,143	0,001	2,011	1,108	404	415		
St. Louis, Mo.5	142	103		10	4	5	1									
St. Paul, Minn.	57	48		2	2	9	i									
Wichita, Kens.1	71	54		1	1	1	3									

^{*}Mortality data in this table are voluntarily reported from 121 cities in the United states, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
*Pneumonia and influenza.
*Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
*Trotal includes unknown ages.
*Boats not available. Figures are estimates based on average of past available 4 weeks.

Current Trends

Abortion Surveillance: Preliminary Analysis – United States, 1984, 1985

The total number of legal abortions reported to CDC from the 50 states and the District of Columbia was 1,333,521 in 1984 and 1,328,570 in 1985 (Table 1). The number of abortions reported for 1984 was approximately 5% higher than the number reported for 1983, whereas virtually no change occurred in the number reported between 1984 and 1985 (<1% decrease between 1984 and 1985).

In 1984, the national abortion ratio was 364.1 legal abortions per 1000 live births (Table 1). The ratio was 353.8 in 1985. The national abortion rate (number of legal abortions per 1000 women 15–44 years of age) was 24 for both 1984 and 1985, a figure essentially unchanged since 1980.

As in previous years, women obtaining abortions in 1984 and 1985 tended to be young, white, and unmarried and to have had no live births (Table 1). In 1985, 61.0% of women obtaining legal abortions were <25 years of age, 66.6% were white, 80.7% were unmarried, and 56.6% had had no live births. Comparable figures were also reported for 1984.

Curettage (suction curettage and sharp curettage) continued to be the primary method of abortion and accounted for 96.6% and 97.8% of all abortion procedures in 1984 and 1985, respectively. The remaining abortions were performed by intrauterine instillation, hysterotomy/hysterectomy, and other procedures. In both 1984 and 1985, as in previous years, approximately half of the legal abortions were performed in the first 8 weeks of gestation, and nearly 90% in the first 12 weeks of gestation.

Reported by: Pregnancy Epidemiology Br and Research and Statistics Br, Div of Reproductive Health, Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: CDC initiated national abortion surveillance in 1969. Between 1969 and 1982, the reported number of women obtaining abortions increased yearly. However, the annual percentage increase in numbers of abortions declined continuously between 1976 and 1982, from 9.2% for 1976–1977 to 0.2% for 1981–1982. Since 1980, the abortion numbers, ratios, and rates appear to be relatively stable, with minor year-to-year fluctuations.

Twenty-eight of the 52 reporting areas reported more abortions for 1984 than for 1983 (average increase of 8.9%); the remaining areas reported fewer (average decrease of 10.9%). Twenty-two of the areas reported more abortions in 1985 than in 1984 (average increase of 4.6%); the remaining 30 areas reported fewer (average decrease 5.2%).

Because of annual variation in the number of states reporting data to CDC on specific characteristics of women obtaining abortions, temporal trends based on these summary data should be viewed with caution.

Abortion Surveillance - Continued

TABLE 1. Characteristics of women obtaining abortions, by selected years - United States, 1972-1985

Characteristics	1972	1976	1980	1981	1982	1983	1984	1985
Reported no. of legal abortions	586,760	988,267	1,297,606	1,300,760	1,303,980	1,268,987	1,333,521	1,328,570
Ratio*	180.1	312.0	359.2	358.4	354.3	348.7	364.1	353.8
Rate [†]	13	21	25	24	24	23	24	24
				Percentag	e distribut	ion ⁸		
Age (yrs)								
≤19	32.6	32.1	29.2	28.0	27.1	27.1	26.2	26.3
20-24	32.5	33.3	35.5	35.3	35.1	34.7	35.3	34.7
≥25	34.9	34.6	35.3	36.7	37.8	38.2	38.5	39.0
Race								
White	77.0	66.6	69.9	69.9	68.5	67.6	67.4	66.6
Black and other	23.0	33.4	30.1	30.1	31.5	32.4	32.6	33.4
Marital status								
Married	29.7	24.6	23.1	22.1	22.0	21.4	20.8	19.3
Unmarried	70.3	75.4	76.9	77.9	78.0	78.6	79.2	80.7
No. live births ¹								
0	49.4	47.7	58.4	58.3	57.8	57.1	56.9	56.6
1	18.2	20.7	19.5	19.7	20.3	20.7	20.9	21.3
2	13.3	15.4	13.7	13.7	13.9	14.2	14.4	14.5
3	8.7	8.3	5.3	5.3	5.1	5.2	5.1	5.1
≥4	10.4	7.9	3.2	3.0	2.9	2.8	2.7	2.5
Type procedure								
Curettage	88.6	92.8	95.5	96.1	96.4	96.8	96.6	97.8
Suction	65.2	82.6	89.8	90.4	90.6	91.1	92.8	92.9
Sharp	23.4	10.2	5.7	5.7	5.8	5.7	3.8	5.0
Intrauterine instillation	10.4	6.0	3.1	2.8	2.5	2.1	2.0	1.5
Hysterotomy/ hysterectomy	0.6	0.2	0.1	0.1	0.0**	0.0**	0.0**	0.0**
Other	0.5	0.9	1.3	1.0	1.0	1.1	1.4	0.7
Weeks gestation		0.0						
<8	34.0	47.0	51.7	51.2	50.6	49.7	49.7	50.8
9-10	30.7	28.0	26.2	26.8	26.7	26.8	26.8	26.2
11-12	17.5	14.4	12.2	12.1	12.4	12.8	12.9	12.3
13-15	8.4	4.5	5.2	5.2	5.3	5.8	5.9	5.9
16-20	8.2	5.1	3.9	3.7	3.9	3.9	3.9	3.9
≥21	1.3	0.9	0.9	1.0	1.1	1.0	0.8	0.8

*Abortions per 1000 live births.

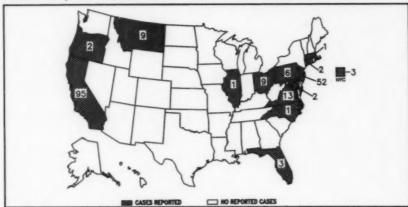
[†]Abortions per 1000 women 15-44 years of age.

⁵Excludes unknowns. Because the number of states reporting each characteristic varies from year to year, temporal comparisons should be made with caution. For 1972 and 1976, data indicate number of living children.

**<0.05%.



FIGURE I. Reported measles cases - United States, Weeks 42-45, 1988



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